



# Standards *Actions*

## DOE Technical Standards Recently Sent for Coordination

The appropriate Technical Standards Managers (TSMs) will provide selected reviewers with copies for comment. The full text of these documents is available on the Technical Standards Program (TSP) Internet Site at the URL shown below. If you wish to comment on these documents, please notify your TSM.

- *Radiological Control Technician Training*, TRNG-0003, (Peter O'Connell, EH-52, 301-903-5641, [Peter.O'Connell@eh.doe.gov](mailto:Peter.O'Connell@eh.doe.gov)) comments due November 16, 1998.
- *Guide to Good Practices for the Selection, Training, and Qualification of Shift Supervisors*, TRNG-0009, (John A. Yoder, EH-31, 301-903-5650, [John.Yoder@eh.doe.gov](mailto:John.Yoder@eh.doe.gov)) comments due November 18, 1998. Note that this document is a conversion and revision of DOE-STD-1061-93.

## DOE Documents Recently Published

The following DOE document has recently been published:

- DOE-HDBK-1114-98, *Guide to Good Practices for Line and Training Manager Activities*, June 1998 (Superseding DOE-STD-1056-93, February 1993).

DOE employees and DOE contractors may obtain copies from the DOE Office of Scientific and Technical Information (OSTI), P.O. Box 62, Oak Ridge, Tennessee 37831; telephone 423-576-8401 or FAX 423-576-5728.

Subcontractors and the general public may obtain copies from the U.S. Department of Commerce, Technology Administration, National Technical Information Service, Springfield, Virginia 22161; telephone 703-605-6000 or FAX 703-321-8547.

Copies of DOE technical standards (i.e., DOE Standards, Specifications, Handbooks, and Technical Standards Lists) are also available on the Internet at the address shown at the bottom of this page. The following documents were recently added to the TSP Internet Site.

- DOE-HDBK-1114-98, *Guide to Good Practices for Line and Training Manager Activities*, June 1998 (Superseding DOE-STD-1056-93, February 1993).

- DOE-STD-3007-93, *Guidelines for Preparing Criticality Safety Evaluations at Department of Energy Non-Reactor Nuclear Facilities*, Change Notice No. 1, September 1998.

## Technical Standards Program Document Status as of 9/30/98

In Conversion	In Preparation	Out for Comment	Published in Past 30 Days
4	47	24	1

**Total in process = 71**

## Non-Government Standards

### American National Standards Institute

The American National Standards Institute (ANSI) publishes coordination activities of non-Government standards (NGS) biweekly in *ANSI Standards Action*. Please note that distribution of *ANSI Standards Action* is normally made only to individual members of ANSI or in group mailings to site members of ANSI. For information on site membership, ask your local ANSI contact. For information on individual or group ANSI member-

ship, call Susan Bose at 212-642-4948, Email [sbose@ansi.org](mailto:sbose@ansi.org). For further information on distribution policies of ANSI publications, call the ANSI distribution manager at 212-642-4952.

Copies of *ANSI Standards Action* and ANSI-published documents may be obtained from ANSI, 11 West 42nd Street, New York, NY 10036 (212-642-4900, FAX 212-302-1286). Comments on listed draft standards may be submitted by contacting the standards developing organization for information.

The following listings are extracted from *ANSI Standards Action* and are representative of NGS development activities that may be relevant to DOE operations. Refer to *ANSI Standards Action* for a complete listing of changes and new publications, standards developing organizations, and additional information about submitting comments. Additional information on ANSI activities and available non-Government standards can be found on the ANSI Internet Site (<http://www.ansi.org>) or through the National Standards System Network (<http://www.nssn.org>).

### The following American National Standards are currently in coordination:

- ASME B18.15.1M, *Forged Lifting Eyes* (new standard); comments due November 10, 1998.
- ASME QME-1A, *Section QV Functional Qualification Requirements for Active Valve Assemblies for Nuclear Power Plants* (supplement to ANSI/ASME QME-1-1994); comments due November 10, 1998.



Visit the Technical Standards Program Internet Site: <http://apollo.osti.gov/html/techstds/techstds.html>

- ASTM A249/A249M, *Specification for Welded Austenitic Steel Boiler, Superheater, Heat-Exchanger, and Condenser Tubes* (revision of ANSI/ASTM A249/A249M-96A); comments due November 10, 1998.
  - ASTM A984, *Specification for Steel Line Pipe, Black, Plain End, Electric Resistance Welded* (new standard); comments due November 10, 1998.
  - ASTM C634, *Terminology Relating to Environmental Acoustics* (revision of ANSI/ASTM C634-98); comments due November 10, 1998.
  - ASTM Z5819Z, *Specification for Performance of Anchors in Cracked and Uncracked Concrete* (new standard); comments due November 10, 1998.
  - ASTM Z5944Z, *New Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors, and Storm Shutters Impacted by Windborne Debris in Hurricanes* (new standard); comments due November 10, 1998.
  - ASTM Z6907Z, *Specification for Factory Assembled Anodeless Risers and Transition Fittings in Polyethylene (PE) Fuel Gas Distribution Systems* (new standard); comments due November 10, 1998.
  - ASTM Z7195Z, *Guide for Editorial Procedures and Form of Product Specifications for Steel, Stainless Steel, and Related Alloys* (new standard); comments due November 10, 1998.
  - ASTM Z7279Z, *Specification for Castings, Austenitic-Ferritic (Duplex) Stainless Steel, for Pressure-Containing Parts* (new standard); comments due November 10, 1998.
  - ASTM Z7387Z, *Specification for General Requirements for Alloy and Stainless Steel Pipe* (new standard); comments due November 10, 1998.
  - ASTM Z7434Z, *Specification for Rail-Steel and Axle-Steel Deformed Bars for Concrete Reinforcement* (new standard); comments due November 10, 1998.
  - C 119.4, *Connectors for Use Between Aluminum-to-Aluminum or Aluminum-to-Copper Bare Overhead Conductors* (revision of ANSI C119.4-1991); comments due October 26, 1998.
  - EIA SP-4301 (if approved, to be published as ANSI/EIA 364-104), *Flammability Test Procedure for Electrical Connectors* (new standard); comments due November 10, 1998.
  - N13.12, *Surface and Volume Radioactivity Standards for Unconditional Clearance* (new standard); comments due November 24, 1998.
  - NFPA 80-1998, *Fire Doors and Fire Windows* (revision of ANSI/NFPA 80-1995); comments due November 10, 1998.
  - NFPA 101B-1998, *Means of Egress Code* (new standard); comments due November 10, 1998.
  - NFPA 110-1998, *Emergency and Standby Power Systems* (revision of ANSI/NFPA 110-1996); comments due November 10, 1998.
  - NFPA 1670-1998, *Operations and Trainings for Technical Rescue Incidents* (new standard); comments due November 10, 1998.
  - SIA A92.6, *Self-Propelled Elevating Work Platforms* (revision of ANSI/SIA A92.6-1990); comments due November 10, 1998.
  - UL 51, *Standard for Safety for Power-Operated Pumps for Anhydrous Ammonia and LP-Gas* (revision of ANSI/UL 51-1992); comments due November 10, 1998.
  - UL 144, *Standard for Safety for Pressure-Regulating Valves for LP Gas* (revision of ANSI/UL 144-1985); comments due November 24, 1998.
  - UL 300, *Standard for Safety for Fire Testing of Fire Extinguishing Systems for Protection of Restaurant Cooking Areas* (new standard); comments due November 24, 1998.
  - UL 618, *Standard for Safety for Concrete Masonry Units* (new standard); comments due November 24, 1998.
- The following international standards are currently in coordination** (comment due dates follow each entry):
- 22F/49/FDIS, IEC 60633: *Terminology for high-voltage direct current (HVDC) transmission* - October 16, 1998.
  - 89/314/FDIS, *Fire hazard testing - Part 9-1: Surface spread of flame - General guidance* - October 16, 1998.
  - EN 1775: 1998/prA1, *Gas supply - Gas pipework for buildings - Maximum operating pressure 5 BAR Functional recommendations* - December 16, 1998.
  - ISO/DIS 3977-7, *Gas turbines - Procurement - Part 7: Technical information* - November 13, 1998.
  - ISO/DIS 8298, *Determination of milligram amounts of plutonium in nitric acid solutions - Potentiometric titration with potassium dichromate after Ce(IV)oxidation and Fe(II)reduction* - November 25, 1998.
  - ISO/DIS 10423, *Petroleum and natural gas industries - Drilling and production equipment - Wellhead and christmas tree equipment* - November 13, 1998.
  - ISO/DIS 11228-1, *Ergonomics - Manual handling - Part 1: Lifting and carrying* - November 20, 1998.
  - ISO/DIS 12039, *Stationary Source Emissions - Determination of carbon monoxide, carbon dioxide and oxygen - Automated methods* - November 25, 1998.
  - ISO/DIS 13535, *Petroleum and natural gas industries - Drilling and production equipment - Hoisting equipment* - December 4, 1998.
  - ISO/DIS 13689, *Refrigerated light hydrocarbon fluids - Measurement of liquid levels in tanks containing liquefied gases - microwave-type level gauges* - November 20, 1998.
  - ISO/DIS 15513, *Cranes - Competency requirements for crane driver (operator), slinger, signaller and assessor* - November 20, 1998.
  - prEN 583-5, *Non-destructive testing - Ultrasonic examination - Part 5: Characterization and sizing of imperfections* - January 6, 1999.
  - prEN 934-3, *Admixtures for concrete, mortar and grout - Part 3: Admixtures for masonry mortar - Definitions, requirements and conformity* - January 6, 1999.
  - prEN 1216 REVIEW, *Heat exchangers - Forced circulation air-cooling and air-heating coils - Test procedures for establishing the performance* (for information).
  - prEN 1776, *Gas supply - Natural gas measuring stations - Functional requirements* (for information).
  - prEN 1964-2, *Transportable gas cylinders - Specification for the design and construction of refillable transportable seamless steel gas cylinders from 0,5 litre up to and including 150 litres - Part 2: Tensile strength ( $R_m$  max.)  $\geq 1100 \text{ N/mm}^2$*  - December 23, 1998.

- prEN 10298, *Steel tubes and fittings for on shore and offshore pipelines - Internal lining with cement mortar* - December 23, 1998.
- prEN 12952-7, *Water-tube boilers - Part 7: Requirements for equipment* - January 6, 1999.
- prEN 13084-2, *Free-standing industrial chimneys - Part 2: Concrete chimneys* - December 16, 1998.
- prEN 13284-1, *Stationary source emissions - Determination of low range mass concentration of dust - Part 1: Manual gravimetric method* - December 16, 1998.
- prEN 13287, *Safety, protective and occupational footwear for professional use - Test method and specifications for the determination of slip resistance* - December 23, 1998.
- prEN 50308, *Wind turbines - Labour safety* - December 18, 1998.
- prEN 133313, *Refrigerating systems and heat pumps - Competence of personnel* - January 6, 1999.
- prEN ISO 1182, *Reaction to fire tests for building products - Non-combustibility test (ISO/DIS 1182:1998)* - November 20, 1998.
- prEN ISO 3471, *Earth-moving machinery - Roll-over protective structures - Laboratory test and performance requirements (ISO 3471: 1994 + Amendment 1: 1997)* - January 6, 1999.
- prEN ISO 6683, *Earth-moving machinery - Seat belts and seat belt anchorages (ISO 6683: 1981 + Amendment 1: 1990)* - January 6, 1999.
- prEN ISO 10304-4, *Water quality - Determination of dissolved anions by liquid chromatography of ions - Part 4: Determination of chlorate, chloride and chlorite in water with low contamination (ISO 10304-4: 1997)* - December 23, 1998.
- prEN ISO 11960 REVIEW, *Petroleum and natural gas industries - Steel pipes for use as casing or tubing for wells (ISO/DIS 11960: 1998)* - December 6, 1998.
- prEN ISO 14111, *Natural gas - Guidelines to traceability in analysis (ISO 14111: 1997)* - December 16, 1998.
- prEN ISO 14644-2, *Cleanrooms and associated controlled environments - Part 2: Testing and monitoring to prove continued compliance with ISO 14644-1 (ISO/DIS 14644-2: 1998)* - December 9, 1998.

### American Society for Testing and Materials

Standards activities of the American Society for Testing and Materials (ASTM) are published monthly in *ASTM Standardization News*. Orders for subscriptions or single copies of *ASTM Standardization News* may be submitted to ASTM, Subscription Dept.-SN, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428-2959. For information regarding ASTM membership, contact the Membership Services Department at 610-832-9691 (FAX 610-832-9667). ASTM publications may be ordered from the ASTM Customer Services Department at 610-832-9585 (FAX 610-832-9555). Comments on listed draft standards may be submitted by contacting the ASTM Standards Coordination Department at the above address. Questions may be addressed to the Technical Committee Operations Division at 610-832-9672 (FAX 610-832-9666). Additional information on ASTM activities is available on the ASTM Internet Site (<http://www.astm.org>). The following listings are extracted from *ASTM Standardization News* and are representative of NGS development activities that may be relevant to DOE operations.

### The following ASTM standards are currently in coordination:

(the due date for all items is October 10, 1998).

- New Standard, *Test Method for Determination of Radon Decay Product Concentration and Working Level in Indoor Atmospheres by Active Sampling on a Filter* (Ref. Z1950Z).
- New Standard, *Test Method for Positive Pressure Fire Test of Window Assemblies* (Ref. Z2428Z).
- New Standard, *Guide for Assessing the Thermal Stability of Materials by Methods of Accelerating Rate Calorimetry* (Ref. Z5157Z).
- New Standard, *Test Methods for Thin Thermally Conductive Solid Materials for Electrical Insulation and Dielectric Applications* (Ref. Z5511Z).
- New Standard, *Guide for Corrosion-Related Failures Analysis* (Ref. Z6498Z).
- New Standard, *Practice for Conducting and Evaluating Laboratory Corrosion Test in Soils* (Ref. Z6499Z).
- New Standard, *Method of Dynamic Tear Testing of Cast Irons to Establish Transition Temperature* (Ref. Z6719Z).
- New Standard, *Test Method for Minimum Ignition Energy of Dust-Air Mixtures* (Ref. Z6767Z).
- New Standard, *Test Method for Concentrated Impacts to Transport Packages* (Ref. Z6934Z).
- New Standard, *Guide for Digital Data Acquisition in Wear and Friction Measurements* (Ref. Z7040Z).
- New Standard, *Practice for Preparation of Zinc (Hot-Dip Galvanized) Coated Iron and Steel Product and Hardware Surfaces for Painting* (Ref. Z7157Z).
- New Standard, *Specification for Nickel and Nickel Alloy Plate, Sheet and Strip* (Ref. Z7249Z).
- New Standard, *Test Method for Analysis of Cast Iron Using Optical Emission Spectrometry* (Ref. Z7265Z).
- New Standard, *Test Method for Time-to-Failure of Plastics Using Plane Strain Tensile Specimens* (Ref. Z7266Z).
- New Standard, *Specification for Seamless and Welded Titanium and Titanium Alloy Condenser and Heat Exchanger Tubes With Integral Fins* (Ref. Z7419Z).
- E 1-95, *Specification for ASTM Thermometers* (revised standard).
- E 18-97a, *Test Methods for Rockwell Hardness and Rockwell Superficial Hardness of Metallic Materials* (revised standard).
- E 176-98, *Terminology of Fire Standards* (revised standard).
- G 15-97a, *Terminology Relating to Corrosion and Corrosion Testing* (revised standard).
- G 40-98a, *Terminology Relating to Wear and Erosion* (revised standard).
- G 109-92, *Test Method for Determining the Effects of Chemical Admixtures on the Corrosion of Embedded Steel Reinforcement in Concrete Exposed to Chloride Environments* (revised standard).

### American National Standards Projects Initiated

The following is a list of proposed new American National Standards or revisions to existing American National Standards submitted to ANSI by accredited standards developers. DOE employees or contractors interested in participating in these activities

should contact the appropriate standards developing organization. [DOE-TSL-4](#) lists the DOE representatives on NGS committees. If no DOE representative is listed, contact the TSPO for information on participating in NGS activities.

#### American Society of Non-Destructive Testing

**Office:** 1711 Arlingate Lane  
P. O. Box 28518

Columbus, OH 43228-0518

**Contact:** Patrick Shively, [pshively@asnt.org](mailto:pshively@asnt.org)

- ASNT CP-189-9712, *Nondestructive Testing - Qualification and Certification of Personnel* (new standard).

#### American Society for Testing and Materials

**Office:** 100 Barr harbor Drive  
West Conshohocken, PA 19428

**Fax:** 610-832-9666

**Contact:** Stephen Mawn, [smawn@astm.org](mailto:smawn@astm.org)

- ASTM Z7467Z, *Terminology Relating to Anchors in Concrete Masonry Elements* (new standard).
- ASTM Z7486Z, *Test Method for Volumetric and Mass Flow Rate Measurement Using Tracer Gas Dilution* (new standard).

**Contact:** Leonard F. Morrissey, [lmorris@astm.org](mailto:lmorris@astm.org)

- ASTM Z4864Z, *Practice for Bias Testing a Mechanical Coal Sampling System* (new standard).
- ASTM Z7477Z, *Guide to Evaluation of Measurements Made by On-line Coal Analyzers* (new standard).

**Contact:** Christina Vogel, [svogel@astm.org](mailto:svogel@astm.org)

- ASTM Z7452Z, *Specification for Industrial Woven Wire Cloth* (new standard).

#### Human Factors and Ergonomic Society

**Office:** P. O. Box 1369

Santa Monica, CA 90406-1369

**Contact:** Lynn Strother, [Lynn\\_Strother@compuserve.com](mailto:Lynn_Strother@compuserve.com)

- HFES 100, *Human Factors Engineering of Computer Work Stations* (new standard).

#### Underwriters Laboratories, Inc.

**Office:** 333 Pfingsten Road  
Northbrook, IL 60004

**Fax:** 847-509-6217

**Contact:** Mitchell Gold, [goldm@ul.com](mailto:goldm@ul.com)

- UL 1256, *Fire Test of Roof Deck Construction* (revision of ANSI/UL 1256-1995).

### Comments, Questions, and Addresses

**Comments:** If you have any questions or comments, please contact Rick Serbu, EH-31, Manager, DOE Technical Standards Program Office (TSPO), 301-903-2856, FAX 301-903-6172, Email [Richard.Serbu@eh.doe.gov](mailto:Richard.Serbu@eh.doe.gov). If you have any questions or comments on DOE standards projects, please contact Don Spellman, Oak Ridge National Laboratory (ORNL), 423-574-7891, FAX 423-574-0382, Email [spellmandj@ornl.gov](mailto:spellmandj@ornl.gov).

**Addresses:** To update our distribution list, please contact Marty Marchbanks, ORNL, 423-241-3658, FAX 423- 574-0382, Email [mmf@ornl.gov](mailto:mmf@ornl.gov).

**Technical Standards Activities:** The TSPO would like to be kept informed of the status of technical standards that are being prepared or coordinated for DOE. Please provide this information to the TSPO at 423-574-7886, Email [lj8@ornl.gov](mailto:lj8@ornl.gov).



## Standards *Actions*

United States Department of Energy

Office of Environment, Safety and Health

EH-72, 270CC

19901 Germantown Road

Germantown, MD 20874